FOREST ROAD EXCISE TAX SUMMARY SHEET

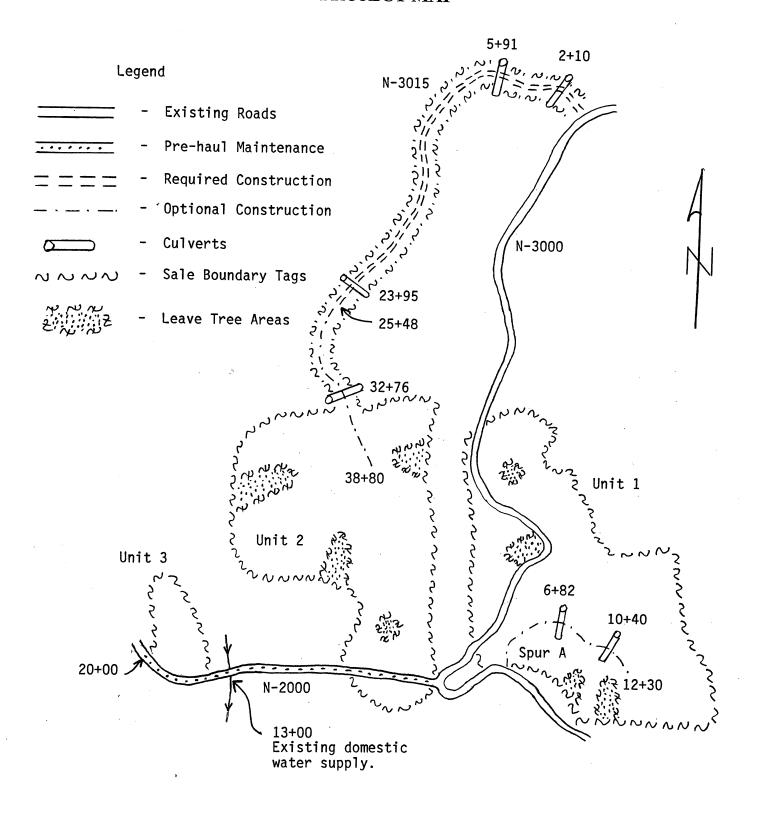
Timber Sale Name: Tollgate
Application Number: 76208
Excise Tax Applicable Activities
Construction: 3880 linear feet Road to be constructed (optional and required) but not abandoned
Reconstruction: linear feet Road to be reconstructed (optional and required) but not abandoned
Abandonment: linear feet Abandonment of existing roads not reconstructed under the contract
Deactivation: linear feet Road to be made undriveable but not officially abandoned.
Pre-Haul Maintenance: 2000 linear feet Existing road to receive maintenance work (specifically required by the contract) prior to haul
Excise Tax Exempt Activities
Temporary Optional Construction:1230 linear feet Optional roads to be constructed and then abandoned
Temporary Optional Reconstruction: linear feet Optional roads to be reconstructed and then abandoned
New Abandonment: linear feet Abandonment of roads constructed or reconstructed under the contract

Region: Pacific Cascade

ROAD PLAN

Name of Sale Tollgate	Pacific Cascade Region
Application No. 76208	County <u>Cowlitz</u>
Section 8 Township 6	North, Range 4 East, W.M.

PROJECT MAP



Scale: 1" = 600'

Date: 4/07/04

Road Plan

Sheet 1 of 17

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

SECTION 1 - GENERAL CLAUSES

1.1 - 1

Clauses in this plan apply to all construction or reconstruction including landings unless otherwise noted.

1.1-2

Construction or pre-haul maintenance of the following road/s is required. All roads shall be constructed or reconstructed on the State's location and in accordance with this Road Plan.

Road	<u>Length</u>	Type
N-2000	0+00 to 20+00	Pre-haul Maintenance
N-3015	0+00 to 25+48	Construction

1.1 - 3

Construction or reconstruction of the following road/s is not required. Roads used by the Purchaser shall be constructed or reconstructed on the State's location and in accordance with this Road Plan.

Road	<u>Stations</u>	Type		
N-3015	25+48 to 38+80	Construction		
Spur A	0+00 to 12+30	Construction		

1.1-4

If the Purchaser desires a road location or design change, a written request shall be submitted to the State for consideration.

1.1-5

On this plan quantities are minimum acceptable values. Additional quantities required by the State because of hidden conditions or Purchaser's choice of construction season or techniques shall be at the Purchaser's expense. Hidden conditions include, but are not limited to: solid subsurface rock, subsurface springs, saturated ground, and unstable soil.

1.2-1

The construction or reconstruction of all roads specified herein shall not be permitted between November 1 and April 30 unless authority to do so is granted, in writing, by the Contract Administrator. Also, the Purchaser shall take all needed measures to protect an existing domestic water supply located at approx. station 13+00 of the N-2000 road. Measures may include road closure during heavy rain events and application of clean rock on this road segment.

1.2-2

Purchaser shall not use roads constructed or reconstructed under this Road Plan for hauling, other than timber cut on the right-of-way, without written approval from the Contract Administrator.

1.2.1-1

Pioneering shall not extend past construction that will be completed during the current construction season. Drainage shall be provided on all uncompleted construction as approved, in writing, by the Contract Administrator.

Clearing and grubbing shall be completed prior to starting excavation and embankment.

Culverts shall be installed in completed subgrade as construction progresses.

Subgrade, ditches, and culvert installations shall be completed and are subject to written approval by the

Contract Number: 76208 Page 2 of 17

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

Contract Administrator prior to rock application.

1.5-1

Maintenance on roads listed in Contract Clauses C-50 (Purchaser Road Maintenance and Repair) and C-60 (Designated Road Maintainer) shall be performed in accordance with Forest Access Road Maintenance Specifications.

1.5-3

Snowplowing will be permitted only after execution of a "Snow Plowing Agreement", which is available from the contract administrator upon request.

SECTION 2 - CLEARING

2.1-1

Fell all vegetative material larger than 6 inches DBH or over 20 feet high between the marked right-of-way boundaries and within waste areas or if not marked in the field, between clearing limits specified on TYPICAL SECTION SHEET.

2.1 - 3

Right-of way timber shall not be decked within the grubbing limits or in locations that interfere with construction of the road prism or impede drainage.

SECTION 3 - GRUBBING

3-1

On the N-3015 road, all stumps shall be removed that fall between grubbing limits shown on the TYPICAL SECTION SHEET. Those outside the grubbing limits but with undercut roots shall also be removed. Stumps over 22 inches diameter shall be split. Stumps over 40 inches shall be quartered.

3-2 Grubbing limits are

Grubbing limits are defined as the entire area between the external limits shown on the TYPICAL SECTION SHEET.

3-3

On Spur A, removal of stumps shall not be required, provided that they are cut flush with the ground.

SECTION 4 - DEBRIS DISPOSAL AND REMOVAL

4.1-1

Right-of way debris is defined as all vegetative material larger than one cubic foot in volume, within the clearing limits

4.2.3-3

Right-of-way debris shall not be placed against standing timber.

4.2.3-4

Right-of-way debris shall be scattered.

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

4.3-1

On the following roads, vegetative material including limbs up to 3 inches in diameter shall be cut and removed to 5 feet beyond the back of the ditch and 5 feet beyond the outer edge of the subgrade and to a height of 14 feet above the road surface. Vegetative material shall be cut as near flush with the ground as possible, but shall not extend more than 3 inches above the ground.

Road

Stations

N-2000

0+00 to 20+00

SECTION 5 - EXCAVATION

5.1-1

Unless controlled by construction stakes or specific design sheets herein, roads shall be constructed or reconstructed in accordance with dimensions shown on the TYPICAL SECTION SHEET.

5.1-3

Road grade and alignment shall conform to the State's marked location. Grade and alignment shall have smooth continuity without abrupt changes in direction. Maximum grades are 18 percent favorable and 12 percent adverse or as specified on drawings. Minimum radius curve is 60 feet.

5.1-4

Extra widening on the inside of curves shall be:

2 feet extra

80 to 100 foot radius curve

4 feet extra

60 to 80 foot radius curve

5.1-8

Excavation slopes shall be constructed no steeper than shown on the following table (except as construction staked or designed.):

Material Type	Excavation Slope Ratio
Common Earth (on side slopes of 55%)	
Common Earth (55% to 70% sideslopes)	3/4:1
Common Earth (on slopes over 70%)	1/2:1
Fractured or loose rock	1/2:1
Hardpan or solid rock	1/4:1

5.1-9

Excavation and embankment slopes shall be constructed to a uniform line and left rough for easier revegetation.

5.1-10

Embankments shall be widened as follows:

Height at Centerline	Subgrade Widening
Less than 6 feet	2 feet
6 feet or over	4 feet

5.1-11

Embankment slopes shall be constructed no steeper than shown on the following table:

Material Type	Embankment Slope Ratio
Common Earth and Rounded Gravel	11/2:1
Angular Rock	11/4:1
Sandy Soils.	

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

5.1-12

Organic material shall be excluded from embankment and from waste material deposited on slopes in excess of 40 percent.

5.1-14

Where side slopes exceed 45 percent, full bench construction shall be utilized for the entire subgrade width.

5.1-15

Waste material may be deposited adjacent to the road prism on side slopes up to 45 percent if the waste material is compacted and more than 50 feet away from live streams. On side slopes over 45 percent, all excavation shall be end hauled or pushed to designated embankment sites. All waste embankments shall be compacted in horizontal layers not exceeding 2 feet.

5.1-21

Waste material shall not be deposited within 50 feet of a live stream.

5.1-24

Turnouts shall be intervisible with a maximum of 1,000 feet between turnouts unless shown otherwise on drawings.

5.2-1

Road pioneering operations shall not undercut the final cut slope, deposit excavated material outside the right-of-way limits, or restrict drainage.

5.3-1

All embankment and waste material shall be compacted. The minimum acceptable compaction is achieved by placing embankments in 2 foot or shallower lifts and routing excavation equipment over entire width of the lifts. Side hill embankments too narrow to accommodate excavation equipment may be placed by end-dumping or side casting until sufficiently wide to support the equipment.

5.4-1

Silt-bearing runoff shall not be permitted to go into streams.

5.4-2

Accomplish sediment removal through silt traps, silt fences, settling ponds, or other methods as approved, in writing, by the Contract Administrator.

5.4-3

Purchaser shall furnish and evenly spread the seed and fertilizer mixture listed below on all exposed soil inside the grubbing limits at a rate of 40 pounds per acre. The date of application is subject to approval by the Contract Administrator.

Mixture Percent by Weight

50% Fescue, Red 25% Ryegrass, Perennial 15% Bentgrass 10% Clover, White

Minimum Percent Germination

90% Germination 90% Germination 85% Germination 90% Germination

Weed seed shall not exceed 0.5% by weight.

Fertilizer shall be applied at the rate of 100 pounds per acre and shall consist of 16-16-16 or other approved balanced mix.

5.5-5

Finished subgrade shall be crowned as shown on the TYPICAL SECTION SHEET, and shall be uniform, firm, rut-free, and shaped to ensure surface runoff in an even, unconcentrated manner.

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ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

SECTION 6 - DRAINAGE

6.2.1-1

Purchaser shall furnish, install, and maintain galvanized culverts meeting AASHTO M-36 or corrugated polyethylene pipe meeting AASHTO specification No. M-294-S as designated on the CULVERT LIST. Culvert and flume lengths shall be varied to fit as-built conditions subject to written approval by the Contract Administrator. Refer to Hydraulic Project Approval/s for applicable culvert installations.

6.2.1-2

Annular corrugated bands and culvert ends shall be used on metal culverts. On culverts 24 inches and smaller, bands shall have a minimum width of 12 inches; on culverts over 24 inches, bands shall have a minimum width of 24 inches. Manufacturer's approved connectors shall be used for corrugated polyethylene pipe.

6.2.1-5

On required roads: culverts, downspouts, flumes, bands, and gaskets as listed on the CULVERT LIST which are not installed shall become property of the State. Purchaser shall stockpile materials as directed by the contract administrator.

6.2.2.1-1

Culvert, downspout, flume, and energy dissipator installation shall be in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Touch up damaged galvanized coating with 2 coats of zinc rich paint.

6.2.2.3-1

Cross drains and surface culverts on road grades in excess of 3% shall be skewed at least 30 degrees from perpendicular to the road centerline, except that cross drain culverts at the low points of dips in roads shall not be skewed.

6.2.2.3-2

Cross drain culverts shall be installed at a slope steeper than the incoming ditch grade, but not less than 3% nor more than 10%.

6.2.2.5-1

Drainage structure outfalls shall not terminate directly on unprotected soil that will erode. Downspouts, flumes, and energy dissipators shall be installed to prevent erosion.

6.3-1

Ditches shall be constructed concurrently with construction of the subgrade. Ditches shall drain to culverts, ditchouts, and natural drainages.

6.3-2

On the following roads, shaping the ditchline, culvert headwalls, and catch basins shall be completed prior to application of rock and shall be done in accordance with the TYPICAL SECTION SHEET and CULVERT AND DRAINAGE SPECIFICATION DETAIL.

Road

Stations

N-2000

0+00 to 20+00

6.4-1

Catch basins shall be constructed to resist erosion in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL. Minimum dimensions: two feet wide and four feet long with backslopes consistent with Clause 5.1-8: Excavation Slopes.

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ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

6.5-1

Headwalls shall be constructed in accordance with CULVERT AND DRAINAGE SPECIFICATION DETAIL at all cross drain culverts except for temporary culverts.

SECTION 7 - ROCK

7.1-1

Rock used under this contract may be obtained from the following source/s on State land as listed below at no charge to the Purchaser.

SourceLocationRock Type1. N-3000 pit StockpileSection 8 (6-4E)3" jawrun ballast2. N-3000 pitSection 8 (6-4E)Rip rap

7.1-5

Use of rock sources not listed in this section is subject to written approval from the contract administrator.

7.2 - 1

All pit operations shall be performed as directed by the contract administrator and in accordance with the Pit Development and Reclamation Plan/s.

7.2.1-1

Rock shall meet the following specifications for gradation when placed on the subgrade:

No more than 10% of the rock shall be larger than 8 inches in any dimension and no rock shall be larger than 12 inches in any dimension.

7.2.3-1

Measurement of rock shall be on a cubic yard truck measure basis. The Purchaser shall provide and maintain load tally sheets for each truck and shall give them to the Contract Administrator upon request.

7.4.2-1

Apply at least the minimum required rock quantity as shown on ROCK LIST. Rock application on Spur A is optional as long as hauling is done during dry weather conditions. If the Purchaser elects to haul during wet weather conditions, then rock shall be applied per the Rock List.

7.4.2-2

On Required roads subgrade shall be approved, in writing, by the Contract Administrator prior to application of rock.

7.4.2-8

Each lift of rock shall be crowned as shown on TYPICAL SECTION SHEET, and shall be uniform, firm, rut-free, and shaped to ensure surface runoff in an even, unconcentrated manner.

7.4.3-2A

Rock shall be spread and compacted full width. Compaction shall be by vibratory Elliot grid weighing at least 20,000 pounds. At least four complete passes at a maximum speed of 10 mph shall be made on each lift.

SECTION 9 - ROAD AND LANDING CLOSURES

9.1-1

The following road/s shall be closed by the purchaser within 10 days following completion of timber harvest. All road abandonment shall be in accordance with Forest Practice Regulations.

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ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

Road

Stations

Spur A

0+00 to 12+30

9.1-2

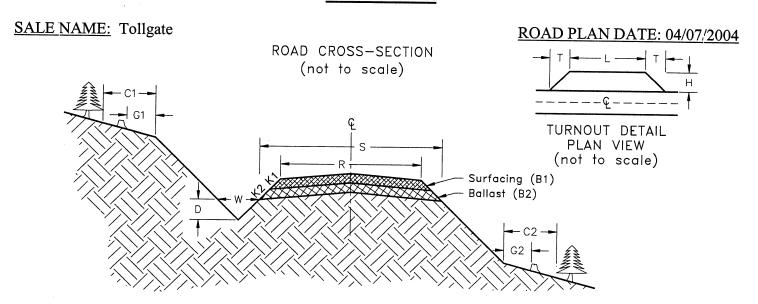
Closure shall consist of:

- 1. Constructing waterbars in accordance with waterbar detail at a maximum spacing of 100' or no more than a 10' vertical drop between waterbars.
- 2. Skewing waterbars at least 30 degrees from perpendicular to the road centerline.
- 3. Construction of road closure trenches in conformance with the "Road Closure Trench Detail".
- 4. Removal of culverts and disposal from State Land. Remove fill material from streams, leaving stream banks at natural slopes.
- 5. Providing grass seed and fertilizer on all exposed soil per Clause 5.6-2.
- 6. Place woody debris on to the road surface.

9.2-1

Purchaser shall reduce or relocate landing debris, in a manner approved by the Contract Administrator, to avoid landing failures and potential debris slides.

ROAD PLAN



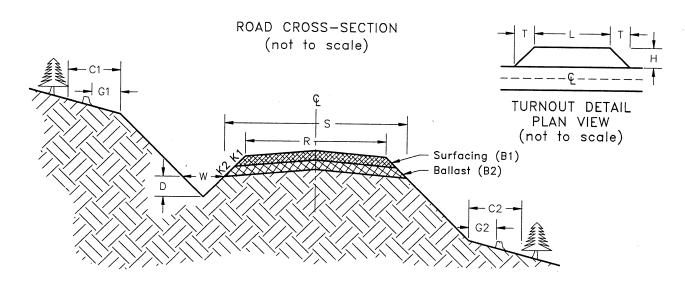
TYPICAL SECTION SHEET

Road Number	From Station	To Station	Tolerance Class	Subgrade Width	Road Width	Di Width	itch Depth	Crown in. @ CL	Gru Li	bbing mits	Cle Lii	aring mits
				S	R	W	D		G1	G2	C1	C
N-2000	0+00	20+00			10'	2'	1'	4"				<u> </u>
N-3015	0+00	38+80		16'	10'	3,	1'	4"	5'	. 5'	10'	10
Spur A	0+00	12+30		16'	10'	2'	1'	4"			10'	10
									-			
												<u> </u>
			· ·									

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004



ROCK LIST

BALLAST

Road Number	From Station	To Station	Rock Slope	Rock Depth	C.Y./ Station	# of Stations	C.Y. Subtotal	Rock Source	Length	Turnout Width	Taper
			K2	B2					L	Н	T
N-2000	0+00	20+00	Cmat	Datah			400				
N-3015	0+00	25+48	Spot	Patch 15"	50	25.40	100	1.			
1, 2012	25+48	38+80	,	12"	52 40	25.48	1325	1.			
	T.O.s	30.00		15"	52	13.32	533	1.			l
Spur A	0+00	12+30		12"	40		156	1.	50'	10'	50'
Landings	0.00	12.50		12	75	12.30	492	1.			
Rip Rap					/3	2	150	1.		-	
Tup Tup							30	2.			

BALLAST TOTAL 2786 Cubic Yards

SURFACING

Road Number	From Station	To Station	Rock Slope	Rock Depth	C.Y./ Station	# of Stations	C.Y. Total	Rock Source
			K1	B1				Alternative transfer of the second of the se

SURFACE TOTAL _____ Cubic Yards

Rock application on Spur A is not required as long as hauling is done during dry weather conditions. If the Purchaser elects to haul during wet conditions, then rock application will be required.

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ROAD PLAN

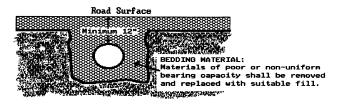
SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

CULVERT LIST

Road		Cu	ılvert		Length (ft)		F	Riprap (C.	Y.)	Backfill	Placement	
Number	Location	Dia.	Gauge	Culvert	Downspt	Flume	Inlet			Material	Method	Remarks
			If			 	ļ	 	 			
			Steel									
N-3015	2+10	24"	16	62'			10	10	L.L			
	5+91	18"	16	32'			3	3	L.L			
	23+95	18"	16	32'			2	2	L.L			
	32+76	18"	16	32'								
Spur A	1+16											Construct ditchout
· · · · · · · · · · · · · · · · · · ·	1+88											Construct ditchout.
	6+82	18"	16	34'								
	10+40	18"	16	36'								
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CULVERT BACKFILL AND BASE PREPARATION (For culverts less than 36")



Key:

SR - Shot Rock

NT - Native (bank run)

SL - Select Fill

HL - Heavy Loose RiprapLL - Light Loose Riprap

Flume - Half round pipe

Downspout - Full round pipe

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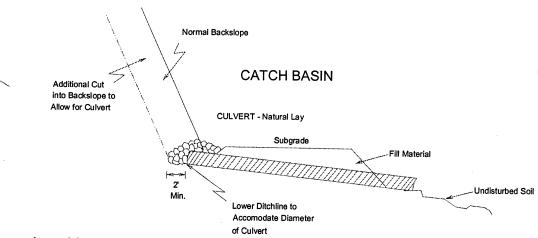
ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

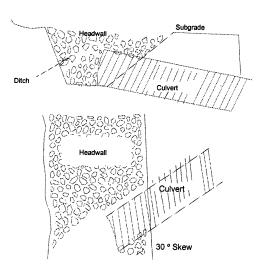
CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 1 of 2)



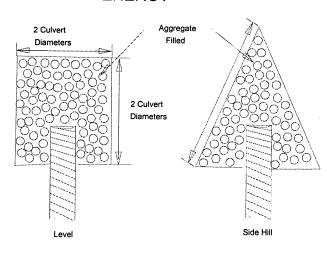
Proper preparation of foundation and placement of bedding material shall precede the installation of all culvert pipe. This includes necessary leveling of the native trench bottom and compaction of required bedding material to form a uniform dense unyielding base. The backfill material shall be placed so that the pipe is uniformly supported along the barrel.

HEADWALLS



Headwalls to be constructed of material that will resist erosion.

ENERGY



Dissipator Specifications:
Depth: 1 culvert diameter
Aggregate: as specified in the
CULVERT LIST.

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

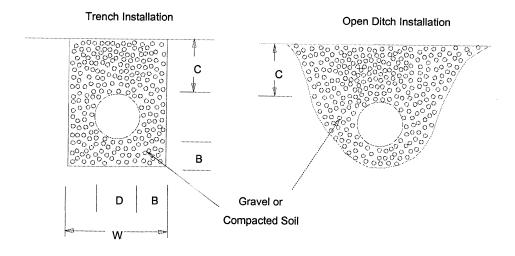
CULVERT AND DRAINAGE SPECIFICATION DETAIL

(Page 2 of 2)

POLYETHYLENE PIPE INSTALLATION

INSTALLATION REQUIREMENTS:

- 1. Crushed stone, gravel, or compacted soil backfill material shall be used as the bedding and envelope material around the culvert. The aggregate size shall not exceed 1/6 pipe diameter or 4" diameter, whichever is smaller.
- 2. The corrugated pipe shall be laid on grade, on a layer of bedding material as shown for the two types of installations. If native soil is used as the bedding and backfill material, it shall be well compacted in six inch layers under the haunches, around the sides and above the pipe to the recommended minimum height of cover.
- 3. Either crushed aggregate or flexible (asphalt) pavement may be laid as part of the minimum cover requirements.
- 4. Site conditions and availability of bedding materials often dictate the type of installation method used.
- 5. The load bearing capability of flexible conduits is dependent on the type of backfill material used and the degree of compaction achieved. Crushed stone and gravel backfill materials typically reach a compaction level of 90-95% AASHTO standard density without compaction. When native soils are used as backfill material, a compaction level of 85% is required. This minimum compaction can be achieved by either hand or mechanical tamping.

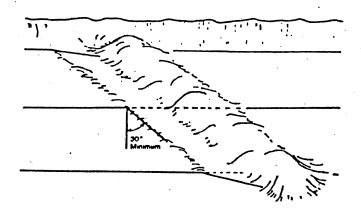


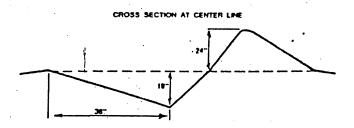
MINIMUM DIMENSIONS Trench or Open Ditch Installation

Nominal Diameter	Minimum Thickness	Minimum Cover	Min. Trench Width
D	В	С	W
18"	6"	12"	36"
24"	6"	12"	42"
30"	6"	12"	48"
36"	6"	12"	54"

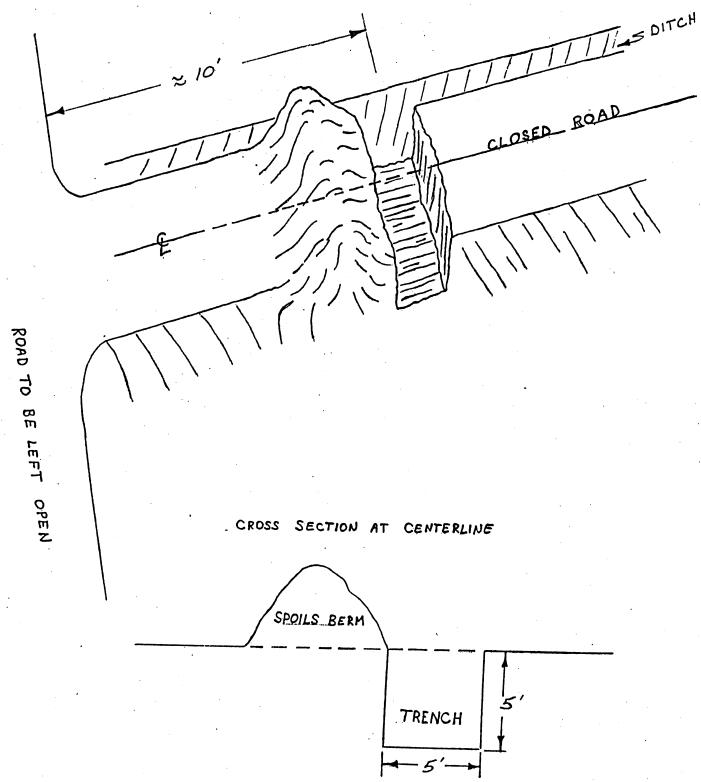
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WATER BAR DETAIL





DATE	CONTRACT NO.	PROJECT	SHEET
4/07/04	76208	TOLLGATE	14 OF 17



DATE	CONTRACT NO.	PROJECT	SHEET
4/07/04	76208	TOLLGATE	15 OF 17

ROAD PLAN

SALE NAME: Tollgate

ROAD PLAN DATE: 04/07/2004

FOREST ACCESS ROAD MAINTENANCE SPECIFICATIONS

1. <u>CONSTRUCTION AND RECONSTRUCTION</u> (Prior to acceptance to the contract or acceptance on a timber sale).

A. Cuts and Fills

- 1. Maintain slope lines as constructed. Remove slides from the ditches and roadway. Replace fills to 11/2:1 slopes with selected material or as directed. Remove overhanging material from the cut slopes.
- 2. Material from slides or other sources requiring removal shall not be deposited in streams or at locations where it will erode into streams or water courses.
- 3. Undesirable slide materials and debris shall not be mixed into the surface material.

B. Surface

- 1. Grade and shape the road surface, turnouts, and shoulders to the original crown, inslope or outslope as directed to provide suitable traveled surface and surface water runoff in an even, unconcentrated manner.
- 2. Blading must not undercut the backslope at the bottom of the ditchline or cut geotextile at centerline.
- 3. Watering may be required to control dust and to retain fine surface rock.
- 4. Desirable surface material shall not be bladed off the roadway.
- 5. Replace surface material lost or worn away.
- 6. Remove berms except as directed by the State.
- 7. Barrel spread soft spots to prevent degradation of geotextile.

C. Drainage

- Keep ditches and drainage channels at outlets and inlets of culverts clear of obstructions and functioning as intended.
- 2. Inspect and clean culverts at least monthly, with additional inspections during storms and periods of high runoff. This must be done even during periods of inactivity.
- 3. Add stable material at the outlet end of the culvert as needed to stabilize the stream bed.
- 4. Headwalls: maintain to the road shoulder level with material that will resist erosion.
- 5. Keep silt bearing surface runoff from getting into live streams.

D. Structures

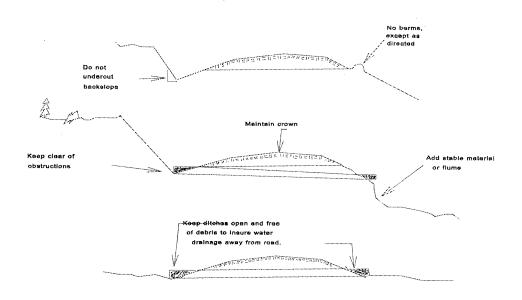
Repair bridges, culverts, cattleguards, fences, and other road structures to the condition required by the construction specifications.

E. Termination of Use or End of Season

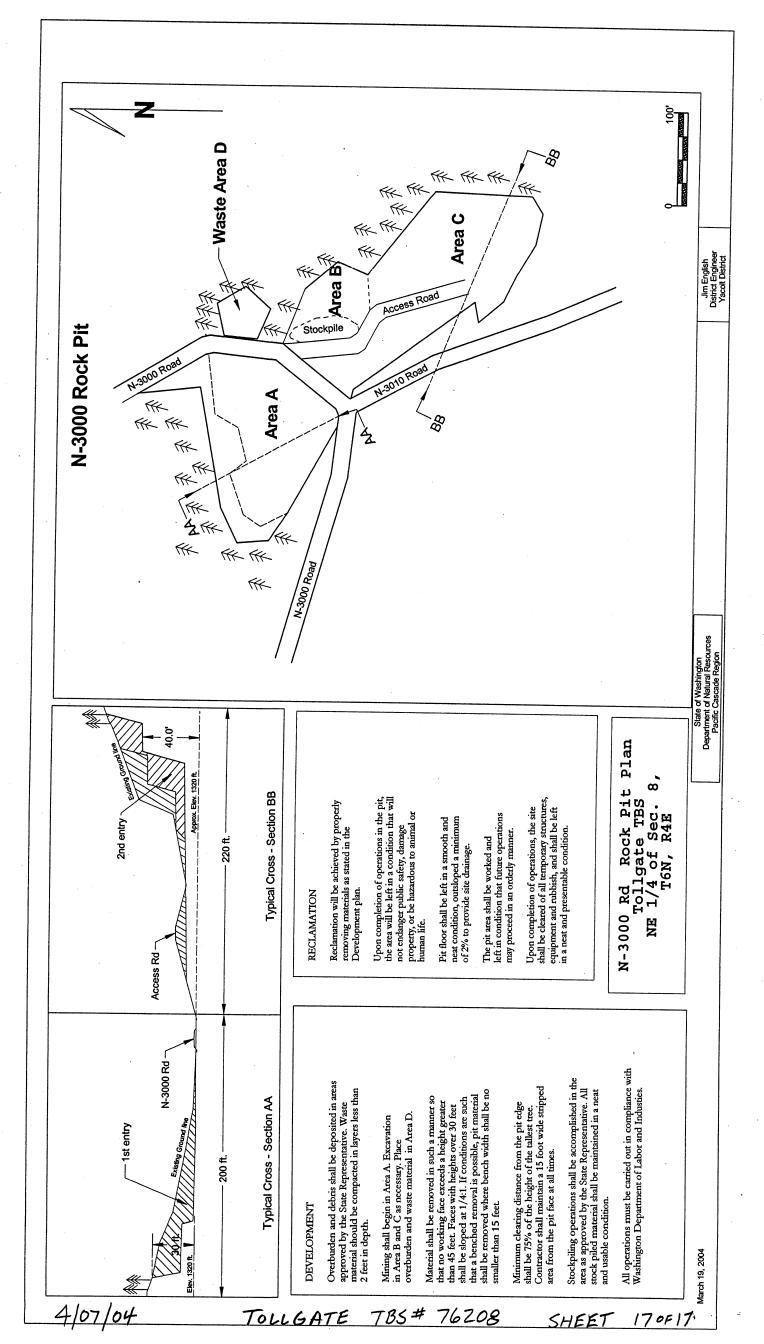
Do maintenance work to minimize damage from the elements such as blading to insure correct runoff, ditch, and culvert cleaning and water bars.

F. Debris

Remove fallen timber, limbs, and stumps from the slopes or roadway.



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	ROAD COST SUMMARY											
Sale Name	Tollgate		_ Agr. N	o. 30-0 76208								
Compiled by	Stan Ross		_ Date	04/07/04								
			Road Cost									
	Road No. Pre-haul maint.		\$1,989.50									
	Road No. <u>N-3015</u>		\$38,496.94									
	Road No. Spur A		\$11,387.93									
	Road No		\$									
	Road No.		\$									
		Total	\$51,874.37									
	Sale V	/olume	2,472	\$/Mbf \$20.98								
			,									

Sale Name

Tollgate

Agr. No. 30-0 76208

Road Cost Summary

ROAD COSTING FORM

Sale	Name	Tollgate				_Agr. No. 30	- <u>7620</u>	8	Road No.	oad No. Pre-haul maint.		
Com	piled by	Stan Ro	ss						Date	April 7, 20	004	
No. of	Stations	- i	20						R/W Width			
CLEAR	ING & GR	UBBING										
	Cat day	g Days	0.5	@ @ @	\$ \$ \$	800.00	= =	\$ \$ \$	400.00		\$400.00	
EXCAV	<u>ATION</u>											
Endhaul	_ Cat day: _ Excavat volume		1	@ @	\$ \$ \$	1000.00	= = =	\$ \$ \$	1000.00		\$ <u>1,000.00</u> -	
BALLAS	ST & SUR	FACING							UNIT COSTS	Ballast	Surfacing	Riprap
Depth	yds	s/sta	X	stations		=	yards		Drill & shoot Dig & load Purchase	1.25		
			•			• • •			Haul Spread Compact Strip/Reclaim	1.25 0.30 0.50		
						• •			Crush			
	Surface	et Source: e Source: o Source:	N-3000 pit						Total	3.30		
	Ballast Surface Riprap		100	yds @	\$ \$ \$	3.30	/yds /yds /yds	= \$	330.00		\$ 330.00	
CULVER	RTS & FLU	JMES	G-(Galvaniz			P-(Plastic)	•		y dissipator)			
Diam.	No.	 Ga.	Туре	Length		Cost/ft	Tota		y alcoipatory	i -(nume)		
										\$	S	
ABANDO	ONMENT											
	Excavato	or days		@ @	\$ \$					\$	S	
OTHER											3	
MOVE IN			\$ \$ \$ \$ @@@@									
			@ \$		_					\$		
										r Station \$		
<u>GENERA</u>	L EXPEN	<u>SES</u>	Subtotal \$	1,730.0	00		Subtot	al X	1.15%	Total \$	1,989.50	

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ROAD COSTING FORM

Sale	Name	Toligate	•		Agr. No. 30	0- <u>76208</u>	_ Road No.	N-3015		
Com	piled by	Stan Ro	SS				_ Date	April 7, 20	004	
No. of	Stations		38.8				R/W Width			
CLEAR	ING & GR	UBBING								
	_ Cat day _ Excavat _ Revege	tor days	8 39	. @ \$. @ \$	1000.00 1000.00 20.00	= \$	8000.00 8000.00 780.00		\$ 16,780.00	
EXCAV	ATION					-				
Endhau	_ Cat day _ Excavat I volume		7	@ \$ @ \$ @ \$	1000.00	= \$ = \$ = \$	7000.00		\$ 7,000.00	
BALLA	ST & SUR	FACING				•	UNIT COSTS	Ballast	Surfacing	Riprap
Depth	yd:	s/sta	X	stations	= = -	yards 	Drill & shoot Dig & load Purchase Haul	0.60		Τάριαρ
					- - -		Spread Compact Strip/Reclaim Crush	0.30		
	Surface	et Source: e Source: o Source:	N-3000 pit				Total	2.40		
	Ballast Surface Riprap		2089	yds @ \$ yds @ \$ yds @ \$	2.40	_ /yds = \$ _ /yds = \$ _ /yds = \$	5013.60	;	\$ 5,013.60	
CULVER	RTS & FLU	JMES .	G-(Galvani	ized)	P-(Plastic)	ED-(enerç	gy dissipator)	F-(flume)		
Diam.	No.	Ga.	Туре	Length	Cost/ft	Total		, ,		
18" 24"	3 1	16 16	G G	102 64		1530.00 1152.00				
ABANDO	DNMENT							\$	2,682.00	
	Excavato	r days		@ \$ @ \$				\$		
OTHER								\$	· ·	
MOVE IN	Excav Dozer Loader Roller		@ \$. @ \$. @ \$.	500.00 500.00 500.00 500.00	•			\$	2,000,00	
GENEDA		SES	Subtotal \$			Subtotal V	Cost per	·	992.19	

ROAD COSTING FORM

Sale	Name	Toligate	9			Agr. No. 30	- <u>7620</u>	8	_ Road No.	Spur A			
Comp	oiled by	Stan Ro	ss						Date	April 7, 2	2004		
No. of	Stations	-	12.3						- R/W Width				
CLEAR	NG & GR	UBBING											
	Cat day Excavat Revege	tor days	2 2 12	_ @ _ @	\$ \$ \$	1000.00 1000.00 20.00	_ =	\$ \$ \$	2000.00 2000.00 240.00		\$	4,240.00	
EXCAVA	ATION												
Endhaul	Cat days Excavat volume		2	. @ . @	\$ \$ \$	1000.00	= =	\$ \$ \$	2000.00		\$	2,000.00	
BALLAS	T & SUR	<u>FACING</u>							UNIT COSTS	Ballast		Surfacing	Riprap
Depth	yds	s/sta	X	stations	;	=	yards	-	Drill & shoot Dig & load Purchase Haul	0.60	<u> </u>		Тиргар
						- - -			Spread Compact Strip/Reclaim	0.30 0.50	$\bar{\Sigma} =$		
						- -			Crush				
	Surface	et Source: e Source: o Source:	N-3000 pit	t stockpile	<u> </u>				Total	2.65	5		
	Ballast Surface Riprap		567	yds @ yds @ yds @	\$	2.65	/yds = /yds = /yds =	= \$	1502.55		\$	1,502.55	
CULVER	TS & FLU	JMES .	G-(Galvan	ized)		P-(Plastic)	- ED-(ei	nerg	y dissipator)	F-(flume)			
Diam.	No.	Ga.	Туре	Lengtl	h	Cost/ft	Tota		, ,	(**************************************			
18"	2	16	G		74	15.00	1110	.00					
										"	\$	<u>1,110.00</u>	
ABANDO	NMENT												
	Excavato	r days	0.75	@	\$ \$	1000.00					\$	750.00	
<u>OTHER</u>	•										\$		
MOVE IN	Trucks		\$ \$ \$ \$ \$ \$ \$ \$	300.	00						_		
	·		w \$				•		<u>.</u> .	.	\$	300.00	
GENERA	L EXPEN	SES	Subtotal \$	9902.	55		Subtota	al X	Cost per		\$ \$_1	925.85 1,387.93	

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